

A B A B

A = 1 B = 2

A = 2 B = 2

1 1
0

for letter in word

^x
for letter in subword

if letter > x

increase value \longrightarrow # of letters greater than ~~value~~

~~for x in~~

for every letter in the word

denominator = denominator * factorial of the occurrence

rank = (value/denominator) * the factorial of the remaining letters. ~~the~~

decrement the # of occurrences from the letter

finally rank + 1

A

value = 0

denominator = 4

positions = 0

rank = 0

B

value = 1

denominator = 2

positions = 2

rank = 1

A

value = 0

denominator = 1

positions = 1

rank = 1

B

value = 0

denominator = 1

positions = 0

rank = 1

• Calculate Value

• Calculate Occurrence

• Find Rank

~~A in ABAB~~

~~B in BAB~~

~~A > B~~